

Abstract of the Disclosure

An austenitic stainless steel with a composition comprising:

- 5 • at most 0.15% of C;
- 2% to 10% of Mn;
- at most 2% of Ni;
- at most 4% of Cu;
- 0.1% to 0.4% of N;
- 10 • 10% to 20% of Cr;
- at most 1% of Si;
- at most 3% of Mo; and
- at most 0.7% of Ti;

is used to manufacture equipment, for example furnaces, reactors or ducts, or
15 elements of this equipment, or to coat the internal walls of this equipment, said
equipment being used to implement petrochemical processes conducted at
temperatures of 350°C to 1100°C and in which coke can be formed.